CIF/PCT NATIONAL/PLANT ORIGINAL/SUBSTITUTE/SUPPLEMENTAL **DECLARATIONS**

(include Zip Code)

110LL 00 (01 C DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION ADEMARK OFFICE IN THE UNITED STATES PATENT AN

FORM

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believ I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED DNA POLYMERASE HAVING ABILITY TO REDUCE INNATE SELECTIVE DISCRIMINATION AGAINST FLUORESCENT DYE-LABELED DIDEOXYNUCLEOTIDES the specification of which (CHECK applicable BOX(ES)) is attached hereto. **→** September 21, 1998 POX(ES) was filed on as U.S. Application No. was filed as PCT International Application No. PCT/ ...id (if applicable to U.S. or PCT application) was amended on I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application: PRIOR FOREIGN APPLICATION(S) Date first Laid-**Date Patented Priority Claimed Day/MONTH/Year Filed** open or Published or Granted <u>Yes</u> Number Country I hereby claim domestic priority benefit under 35 U.S.C. 119/120/365 of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application: PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S) **Priority Claimed** Application No. (series code/serial no.) Day/MONTH/Year Filed pending, abandoned, patented <u>Yes</u> <u>No</u> 08/544,643 18 October 1995 patented X 08/642,684 3 May 1996 pending X L I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and 🚔 further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And I hereby appoint Pillsbury Madison & Sutro LLP, Intellectual Property Group, 1100 New York Avenue, N.W., Ninth Floor, East Tower, Washington, D.C. 20005-3918, telephone number (202) 861-3000 (to whom all communications are to be directed), and the below-named persons (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct the above Firm and/or a below attorney in writing to the contrary. Paul N. Kokulis David W. Brinkman G. Paul Edgell 24238 Richard H. Zaitlen 27248 16773 20817 Raymond F. Lippitt 35861 Roger R. Wise 31204 17519 Donald J. Bird 25323 Lynn E. Eccleston Jay M. Finkelstein 21082 34852 Peter W. Gowdey 25872 Timothy J. Klima G. Lloyd Knight 17698 Carl G. Love 18781 Dale S. Lazar 28872 David A. Jakopin 32995 Anita M. Kirkpatrick 32617 36787 30793 Michael R. Dzwonczyk Edgar H. Martin 20534 Paul E. White, Jr. 32011 Mark G. Paulson William K. West, Jr. 22057 Glenn J. Perry 28458 Stephen C. Glazier 31361 W. Patrick Bengtsson 32456 31542 K vin E. Joyce Kendrew H. Colton Paul F. McQuade 20508 30368 George M. Sirilla 18221 Michelle N. Lester 32331 Ruth N. Morduch 31044 oct. 1998 (1) INVENTOR'S SIGNATURE: 🔨 Date: GuoFan HONG First Middle Initial Family, Name Residence Shanghai China china Country of Citizenship State/Foreign Country Apartment 523, Lane 305, An Shun Road, Shanghai, The People's Republic of China Post Office Address (include Zip Code) 200051 (2) INVENTOR'S SIGNATURE Date: HUANG Wei-hua Middle Initial Family Name First Province, PRC (PC 315010) Residence China Zhejiang City State/Foreign Country Country of Citizenship Post Office Address 704, No. 5, Lane 35, Yun-Shi, Ningbo, Zhejiang Province, PRC (PC 315010)

(FOR ADDITIONAL INVENTORS, check box ____ to attach PAT 116-2 same information for each re signature, name, date, citizenship, residence and address.)

Rule 56(a) & (b) = 37 C.F.R. 1.56(a) & (b) PATH AND TRADEMARK CASES - RULES OF BRACTICE DUTY OF DISCLOSURE

(a) ...Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the [Patent and Trademark] Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability...(b) information is material to patentability when it is not cumulative and (1) It also establishes by itself, or in combination with other information, a prima facie case of unpatentability of a claim or (2) refutes, or is inconsistent with, a position the applicant takes in: (i) Opposing an argument of unpatentability relied on by the Office, or (ii) Asserting an argument of patentability

PATENT LAWS 35 U.S.C.

§102. Conditions for patentability; novelty and loss of right to patent

A person shall be entitled to a patent unless--

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent or
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or
- (c) he has abandoned the invention, or

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- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months* before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
- (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

§103. Condition for patentability; non-obvious subject matter

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Subject matter developed by another person, which qualified as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person

^{*} Six months for Design Applications (35 U.S.C. 172).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE POWER OF ATTORNEY

Docket No. LPE-194

Name of Applicant:

Wel-Hus Busne

Address of Applicant:

794, No. 5, Lane 35

Yun-Shi, Ningbo

Zhejiang Province, The Peoples' Rep. of China PC315010

Tite:

DNA Polymerase Having Ability to Reduce Innate Selective Discrimination

Against Finerescent Dye-Labeled Dideoxynuclestides

Serial No., If Any:

09/157,397

Fled:

September 21, 1998

TO THE ASSISTANT COMMISSIONER FOR PATENTS

The Assistant Commissioner for Patents Washington, D.C. 20231

Honombie Sir:

I heraby appoint:

Mariana Titus, Reg. No. 35,843 and Caroline Nath, Reg. No. 36,329 both of

Nash & Titus

as principal attorneys to prosecute this application and to transact all business in the Patent and Trademark

Please direct all future correspondence to:

Wel-Hus Huans

Nach & Titum, LLC

Attn: Mariana Titus

3415 Breoksville Read

Sulte 1000

Breokeville, MD 20833

Y Dated:

12/27/99

SMALL ENATY STATEMENT CLAIMING SMALL ENTIRY STATUS (37 CFR 1.9(f) and 1.27 (b)) - NONPROFIT ORGANIZATION

	I hereby state that I am an official empowered to act on behalf of the nonprofit organization identified below.
	NAME OF ORGANIZATION Shanghai Institute of Biochemistry, Chinese Academy of Sciences 4DDRESS OF ORGANIZATION Shanghai, China PE OF ORGANIZATION
	 ✓ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION ☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) AND 501(c)(3)) ☐ NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA (NAME OF STATE)
	(CITATION OF STATUTE) WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) AND 501(c)(3)) IF LOCATED IN THE UNITED STATES OF AMERICA
	WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA (NAME OF STATE)
Ī	(CITATION OF STATUTE) I hereby state that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, with regard to the invention entitled DNA POLYMERASE HAVING ABILITY TO REDUCE INNATE SELECTIVE DISCRIMINATION AGAINST FLUORESCENT DYE-LABELED DIDEOXYNUCLEOTIDES by the inventor(s) in
	Guo Fan HONG and Wei-hua HUANG x → ☐ the specification filed herewith one → ☑ Application No /, filed September 21, 1998 box → ☐ Patent No, issued
	I hereby state that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.
	If the rights held by the nonprofit organization are not exclusive, each small entity individual, concern or organization having rights to the invention is listed below in (A) and (B) and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).
	(A) FULL NAME of assignee/licensee/grantee/conveyee* ADDRESS
=	☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION
	(B) FULL NAME of assignee/licensee/grantee/conveyee* ADDRESS
	☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION
	*NOTE: Separate statement is required from each person, concern or organization named in (A) and (B) above having rights to the invention, averring to his/her/its status as a small entity. (37 CFR 1.27)
	Lacknowledge the duty to file, in this case, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))
	NAME OF PERSON SIGNING TITLE IN ORGANIZATION ADDRESS OF PERSON SIGNING Director of Research & Development Department in Shanghai lastitute of Biochemistry, Chinese Academy of Sciences
	SIGNATURE Goo Diorg Siochemistry, Chinese Academy of Sciences SIGNATURE Goo Diorg Story Road, Shanghai 200031 99.10.12